

REMARKS

Claims 1-42 are pending in this application, with claims 1, 15 and 29 being independent.

The specification and abstract have been amended in response to the Examiner's objections. No new matter has been added.

Claims 1, 14, 15, 28, 29 and 42 have been amended in response to the rejection under section 112, second paragraph. In particular, claims 1, 15 and 29 have been amended to recite that the binary polynomial multiplier includes components separate and distinct from components of the arithmetic multiplier, which is contrary to the Examiner's interpretation of the claims; and claims 14, 28 and 42 have been amended to recite that the permutation logic is connected to receive the input operands and operable to produce an output comprising a permutation of the input operands. Support for these amendment may be found, for example, in Fig. 4 and the accompanying text at page 10, line 28 to page 11, line 6, of the application.

In view of the amendments discussed above, applicant requests reconsideration and withdrawal of the rejection under section 112, second paragraph.

Claims 1, 2, 6, 9-13, 15, 16, 20, 23-27, 29, 30, 34 and 37-41 have been rejected as being anticipated by Dieffenderfer. Applicant requests reconsideration and withdrawal of this rejection because Dieffenderfer does not describe or suggest a binary polynomial multiplier including components separate and distinct from components of an arithmetic multiplier, or a multiply unit output data path connected to receive an output of the arithmetic multiplier and connected to receive an output of the binary polynomial multiplier, as recited in each of the independent claims. Instead, as noted by the Examiner, Dieffenderfer's multiplier includes delta generators 314 and an adder array 318 that perform all of the multiplication functions provided by the multiplier.

Claims 3-5, 17-19 and 31-33 have been rejected as being unpatentable over Dieffenderfer in view of Zhang, and claims 7, 8, 21, 22, 35 and 36 have been rejected as being unpatentable over Dieffenderfer in view of Magar. Applicant requests reconsideration and withdrawal of this

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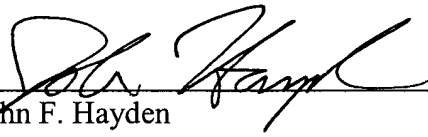
rejection because neither Zhang nor Magar remedies the failure of Dieffenderfer to describe or suggest the subject matter of the independent claims.

For the reasons discussed above, applicant believes that all claims are in condition for allowance.

Enclosed is a check for \$950 for the Petition for Extension of Time fee. Please apply any other charges or credits to deposit account 06-1050.

Respectfully submitted,

Date: 2/13/04



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